

SEQUENCE LISTING

```
<110> Mirochnitchenki, 0.
    Wei, J.
    Inouye,M.

<120> Ischemia Activated Protein

<130> 13257-00026

<140> tba
<141>

<160> 11

<170> FastSEQ for Windows Version 3.0

<210> 1
<211> 744
<212> DNA
<213> Homo sapiens
<400> 1
```

atgtctccgg	cgcgtcggtg	cagggggatg	agggccgcgg	tggctgccag	cgtggggttg	60
agcgaggggc	ctgctggctc	ccggagcggt	cgcctcttcc	gcccgccgag	tcccgctccg	120
gcggcccccg	gcgcccggct	gttgcggctc	ccggggagcg	gggccgtgca	ggccgcgagc	180
ccggagcgcg	ccggctggac	cgaggcgctg	cgggccgccg	tggccgagct	gcgcgccggc	240
gccgtggtgg	ccgtccccac	cgatacgctg	tacggcctgg	cctgcgcggc	gagetgeteg	300
gcggctctgc	gcgctgtgta	ccgcctcaag	ggtcgcagcg	aggccaagcc	tctggccgta	360
tgcctcggcc	gcgtggccga	cgtctacaga	tactgccgtg	tgagagtacc	tgaggggctc	420
ctgaaagacc	tactgccagg	accagtgacc	ctggtgatgg	aacgctcgga	ggagctcaac	480
aaggacctaa	acccttttac	gcctcttgta	ggcattcgga	ttcctgatca	tgcttttatg	540
caagacttgg	ctcagatgtt	tgagggtccg	cttgctctca	ctagtgccaa	cctcagctcc	600
caggccagtt	ctctgaatgt	cgaggagttc	caggatctct	ggcctcagtt	gtccttggtt.	660
attgatgggg	gacaaattgg	ggatggccag	agccccgagt	gtcgccttgg	ctcaactgtg	720
gttgatttgt	ctgtgcccgg	aaagtttggc	atcattcgtc	caggctgtgc	cctggaaagt	780
actacagcca	tcctccaaca	gaagtacgga	ctgctcccct	cacatgcgtc	ctacctgtga	840

<210> 2

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2

 Met
 Ser
 Pro
 Ala
 Arg
 Arg
 Cys
 Arg
 Gly
 Met
 Arg
 Ala
 A

```
Ala Val Val Ala Val Pro Thr Asp Thr Leu Tyr Gly Leu Ala Cys Ala

  85
  90
  95

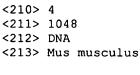
Ala Ser Cys Ser Ala Ala Leu Arg Ala Val Tyr Arg Leu Lys Gly Arg
     100 105
Ser Glu Ala Lys Pro Leu Ala Val Cys Leu Gly Arg Val Ala Asp Val
        120
                                 125
Tyr Arg Tyr Cys Arg Val Arg Val Pro Glu Gly Leu Leu Lys Asp Leu
    135
                    140
Leu Pro Gly Pro Val Thr Leu Val Met Glu Arg Ser Glu Glu Leu Asn
                           155
Lys Asp Leu Asn Pro Phe Thr Pro Leu Val Gly Iso Arg Iso Pro Asp
  165 170
His Ala Phe Met Gln Asp Leu Ala Gln Met Phe Glu Gly Pro Leu Ala
     180 185
                                    190
Leu Thr Ser Ala Asn Leu Ser Ser Gln Ala Ser Ser Leu Asn Val Glu
      200
                                  205
Glu Phe Gln Asp Leu Try Pro Gln Leu Ser Leu Val Iso Asp Gly Gly
210 215 220 225
Gln Iso Gly Asp Gly Gln Ser Pro Glu Cys Arg Leu Gly Ser Thr Val
           230
                           235
Val Asp Leu Ser Val Pro Gly Lys Phe Gly Iso Iso Arg Pro Gly Cys
   245 250
Ala Leu Glu Ser Thr Thr Ala Iso Leu Gln Gln Lys Tyr Gly Leu Leu
 260 265
Pro Ser His Ala Ser Tyr Leu
  275
```

<210> 3 <211> 1387 <212> DNA <213> Homo sapiens

<400> 3

natttcggca	ctagggaacg	ctcggaggag	ctcaacaagg	acctaaaccc	ttttacgcct	60
cttgtaggca	ttcggattcc	tgatcatgct	tttatgcaag	acttggctca	gatgtttgag	120
ggtccgcttg	ctctcactag	tgccaacctc	agctcccagg	ccagttctct	gaatgtcgag	180
gagttccagg	atctctggcc	tcagttgtcc	ttggttattg	atgggggaca	aattggggat	240
ggccagagcc	ccgagtgtcg	ccttggctca	actgtggttg	atttgtctgt	gcccggaaag	300
tttggcatca	ttcgtccagg	gtgtgcctgg	gaaagtacta	cagccatcct	ccaacagaag	360
tacggactgc	tcccctcaca	tgcgtcctac	ctgtgaaact	ctgggaagca	ggaaggccca	420
agacctggtg	ctggatacta	tgtgtctgtc	cactgacgac	tgtcaaggcc	tcatttgcag	480
aggccaccgg	agctagggca	ctagcctgac	ttttaaggca	gtgtgtcttt	ctgagcactg	540
tagaccaagc	ccttggagct	gctggtttag	ccttgcacct	ggggaaagga	tgtatttatt	600
tgtattttca	tatatcagcc	aaaagctgaa	tggaaaagtt	aagaacattc	ctaggtggcc	660
ttattctaat	aagtttcttc	tgtctgtttt	gtttttcaat	tgaaaagtaa	ttaaataaca	720
gatttagaat	ctagtgagag	cntcctctct	gggggtggtg	gcatttaagg	ttcaacccan	780
ccnagaagtg	ctgcgctgtt	taaaaagtct	caggtggctg	cgtgtggtgg	ctcatgcctg	840
taatcccaac	attctgggag	gcccaggcgg	gagaactgct	tgagcccagg	agttcagaat	900
cagcctgggc	aacatagcaa	tactccgtct	cataaaaatt	aataaataaa	aagtctcagg	960
tgaccaaagg	ctcctgaagc	tagaaccagg	tttggataaa	gattgaagag	ccacaggcca	1020
ctcttccctc	tgagccattg	ggcctagtgg	tgtcatgtat	tgtaattgct	cgcagggaga	1080
gcagtctttt	tggtgtaata	gtgggatgtc	tgcttagttg	gcaggggttc	agtccaaatg	1140
gaagaatatt	gggaaataaa	cctccnctat	cctttatagc	cagggacttt	tttcttattt	1200
attcataaaa	taaattatag	ttaattatac	ccataacacc	tttatttaaa	tccagtgttc	1260
tccgcagcct	tttgtctatt	tatatgtgta	ccaagtgtta	aacataatta	ttattgggca	1320
tttgaacntg	tttttcntta	naganatnct	gnnattaaac	atatttgtna	atggnaaaaa	1380
aaaaaaa						1387

SD-167029.1



<400> 4

atgtctacgg	cgcgtccgtg	cgcggggctg	agggccgccg	tggcggccgg	catggggttg	60
agcgacgggc	cggctagttc	tggccgcggc	tgccgcctcc	tactccctcc	tgagcccgct	120
ccggcgctgc	cgggggcccg	gctgctgcgg	cttccggaga	gcgagcccgt	ggaagccgcg	180
agccccgagc	gcgccggctg	gaccgaggcg	ctgcgggccg	ccgtggccga	gctgcgcgcc	240
ggcgccgtgg	tggcggtccc	gaccgacacg	ctctacggcc	tggcctgctc	ggcgagcagc	300
tcggcggccc	tgagttgcgt	gtaccgcctc	aaaggccgca	gcgaggccaa	gccgctggcc	360
gtgtgcctgg	gccgcgtggc	cgacgtctac	aggtactgtc	aggtgagagt	acctagggag	420
ctcctggaag	acctgttccc	aggccctgtg	accctggtga	tggagcgctc	cgaggagctc	480
aacaaagacc	tgaacccctt	tactcgtctt	gttggcatcc	ggattcctga	ccatgccttc	540
atgctggact	tggcccagat	gtttggggga	ccacttgcac	tcactagtgc	caacctcagc	600
tcccaggcca	gttctctgag	tgttgaggag	ttccaagacc	tctggcctca	tttgtccctt	660
gtcattgatg	gggggccaat	tggggatagt	cagagccctg	agtgtcgcct	cggctctact	720
gtggttgact	tatctgtgcc	tggaaagttt	ggcattattc	gcccaggctg	tgccctggaa	780
aacactacat	cgatcctcca	gcagaaatat	gggctgctcc	cttcacaggg	gtcctgttca	840
tgaaacttgg	gaggacccaa	ggacatgctg	gatactatgt	gtctgctact	ggatgcaaag	900
cctcattgcc	tgaggttcct	acatctatag				930

<210> 5 <211> 149 <212> PRT <213> Mus musculus

<400> 5

Met Ser Thr Ala Arg Pro Cys Ala Gly Leu Arg Ala Ala Val Ala Ala 10 Gly Met Gly Leu Ser Asp Gly Pro Ala Ser Ser Gly Arg Gly Cys Arg 25 Leu Leu Pro Pro Glu Pro Ala Pro Ala Leu Pro Gly Ala Arg Leu 40 Leu Arg Leu Pro Glu Ser Glu Pro Val Glu Ala Ala Ser Pro Glu Arg 55 Ala Gly Try Thr Glu Ala Leu Arg Ala Ala Val Ala Glu Leu Arg Ala 70 Gly Ala Val Val Ala Val Pro Thr Asp Thr Leu Tyr Gly Leu Ala Cys 90 Ser Ala Ser Ser Ser Ala Ala Leu Ser Cys Val Tyr Arg Leu Lys Gly 100 105 Arg Ser Glu Ala Lys Pro Leu Ala Val Cys Leu Gly Arg Val Ala Asp 120 125 Val Tyr Arg Tyr Cys Gln Val Arg Val Pro Arg Glu Leu Leu Glu Asp 135 140 Leu Phe Pro Gly Pro Val Thr Leu Val Met Glu Arg Ser Glu Glu Leu 150 155 Asn Lys Asp Leu Asn Pro Phe Thr Arg Leu Val Gly Iso Arg Iso Pro 165 170 Asp His Ala Phe Met Leu Asp Leu Ala Gln Met Phe Gly Gly Pro Leu 180 185 Ala Leu Thr Ser Ala Asn Leu Ser Ser Gln Ala Ser Ser Leu Ser Val

SD-167029.1

<210> 6 <211> 702 <212> DNA <213> Bos Taurus

<400> 6

```
ggccgtcccc aacgatacgc tgtacgggct ggcctgctcg gcgagctgct cggaagcact
                                                                         60
gggcgccgtg taccgtgtca agggccgcag cgagaccaag ccgctggccg tatgcctggg
                                                                        120
ccgcgtggcc gacgtctaca ggtactgcca cgtgagagta cctgaggggc tcctgaagga
                                                                        180
cctgttgcca ggaccagtga ccctggtgat ggaacgctca gaggagctca acaaggacct
                                                                        240
gaatcettte acteetettg taggeateeg gatteetgae caegeettea tgeaggaett
                                                                        300
ggtccagatg tttggggggc cactcgctct caccagtgcc aacctcagct cccagtccag
                                                                        360
ctctctgaat gttgaggaat tccaggacct gtggcctcac ttgtccctga tcattggtgg
                                                                        420
gggaccaatt ggggacggcc agagcccaga gtgtcgacta ggctcaactg tggttgactt
                                                                        480
gtctgtgcct ggaaagtttg gcatcattcg tcctggttgt gcccttgaaa gtacttcagc
                                                                        540
catcetecag gagtatggge tgeteceete acatggatee tgetggtgae actetqqaqq
                                                                        600
agggaaggcc caagggctgg tgctggacac tatgtgtccg actgctgqtq qttqqcaagq
                                                                        660
cctcatttgc agaggctgct agggctacag tgttagtagt ct
                                                                        702
```

<210> 7 <211> 126 <212> PRT <213> B. Taurus

<400> 7

Met Glu Arg Ser Glu Glu Leu Asn Lys Asp Leu Asn Pro Phe Thr Pro 10 Leu Val Gly Ile Arg Ile Pro Asp His Ala Phe Met Gln Asp Leu Val 25 Gln Met Phe Gly Gly Pro Leu Ala Leu Thr Ser Ala Asn. Leu Ser Ser 40 Gln Ser Ser Leu Asn Val Glu Glu Phe Gln Asp Leu Trp Pro His 55 Leu Ser Leu Ile Ile Gly Gly Gly Pro Ile Gly Asp Gly Gln Ser Pro 70 Glu Cys Arg Leu Gly Ser Thr Val Val Asp Leu Ser Val Pro Gly Lys Phe Gly Ile Ile Arg Pro Gly Cys Ala Leu Glu Ser Thr Ser Ala Ile 105 110 Leu Gln Glu Tyr Gly Leu Leu Pro Ser His Gly Ser Cys Trp 120

<210> 8

60

120

480 540 600

660

720

780

840 841

```
<211> 841
      <212> DNA
      <213> Rattus novartis
      <400> 8
gatagtgaaa gccctgagtg tcgtcttggc tctactgtgg ttgacttgtc tgtgcctgga
aagtttggca ttattcgctc aggctgtgcc ctggaaaata ctacagccat cctccagggg
cctctcaccc caaccctgcc tataagttaa gtaacttgac tgcagaatta gaatgcatta agagctgctt zctggtgaac agtgaaattt ggtttaaaac cagccagaag cactaatgca gtctagaagt ctcaggacca atgcagcaaa gtctaggagc cctggccaga gctttctggg
tacaggagag tggtcatttg gagaaaatta ttctaggagt tccaaatgaa ataatattga
aaaataaaat cttgactgtt ttcagccagt gactttctta tttattggta tagttctctg
tttaatttat ttaactcaga agtcatcttt gttcatatgt ctacctggta tttacataat
<210> 9
      <211> 83
      <212> PRT
      <213> Rattus novartis
      <400> 9
Asp Ser Glu Ser Pro Glu Cys Arg Leu Gly Ser Thr Val Val Asp Leu
                 5
                                    10
                                                        15
Ser Val Pro Gly Lys Phe Gly Ile Ile Arg Ser Gly Cys Ala Leu Glu
                               25
                                                30
Asn Thr Thr Ala Ile Leu Gln Gly Lys Tyr Gly Leu Leu Leu His Arg
                           40
Gly Pro Val His Glu Thr Trp Glu Asp Pro Arg Thr Cys Trp Ile Leu
                      55
Cys Val Tyr Tyr Arg Leu Ala Lys Pro His Trp Leu Arg Phe Leu Glu
65
                   70
                                     75
Leu His Leu
      <210> 10
      <211> 28
      <212> DNA
      <213> Mus musculus
      <400> 10
ggaattccat atggagcgct ccgaggag
      <210> 11
      <211> 26
      <212> DNA
      <213> Mus musculus
      <400> 11
```

taggatcctc aggcaatgag gctttg